SEQUENCE LISTING

<110> Cohen, David I.

<120> Tat-based Immunomodulatory Compositions and Methods for Their Discovery and Use

<130> 51311-00009

<150> 60/553,733
<151> 2004-03-16

<160> 11

<170> PatentIn version 3.2

<210> 1
<211> 101
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 1

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser
1 5 10 15

Gln Pro Lys Thr Ala Cys Thr Thr Cys Tyr Cys Lys Lys Cys Cys Phe
20 25 30

His Cys Gln Val Cys Phe Thr Lys Lys Ala Leu Gly Ile Ser Tyr Gly
35 40 45

Arg Lys Lys Arg Arg Gln Arg Arg Arg Ala Pro Glu Asp Ser Gln Thr
50 55 60

His Gln Val Ser Pro Pro Lys Gln Pro Ala Pro Gln Phe Arg Gly Asp
65 70 75 80

Pro Thr Gly Pro Lys Glu Ser Lys Lys Lys Val Glu Arg Glu Thr Glu
85 90 95

Thr His Pro Val Asp
100

<210> 2
<211> 303
<212> DNA
<213> Human immunodeficiency virus type 1

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gcctgcacca catgttactg caagaagtgc tgcttccact gccaggtgtg cttcaccaag 120

aaggccttgg gcatcagcta cggccgcaag aagcgccggc agcgccgccg ggcccctgag 180

gacagccaga cccaccaggt gagccctccc aagcagcccg ctccacagtt ccgcggcgac 240

cctaccggtc ccaaggagag caagaagaag gtggagcgcg agaccgagac ccatcccgtc 300

gac 303

<210> 3
<211> 17
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 3

Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser Gln Pro
1 5 10 15

Lys

<210> 4
<211> 21
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 4

Pro Cys Asp Trp Pro Leu Thr Pro Asp Pro Trp Val Tyr Ser Gly Ser
1 5 10 15

Gln Pro Lys Val Pro
20

<210> 5
<211> 27
<212> PRT
<213> Simian immunodeficiency virus

<400> 5

Pro Leu Arg Glu Gln Glu Asn Ser Leu Glu Ser Ser Asn Glu Arg Ser
1 5 10 15

Ser Cys Ile Leu Glu Ala Asp Ala Thr Thr Pro
20 25

<210> 6
<211> 11
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 6

Ser Asn Glu Arg Ser Ser Cys Glu Leu Glu Val
1 5 10

<210> 7
<211> 16
<212> PRT
<213> Human immunodeficiency virus type 1

<400> 7

Cys Thr Thr Cys Tyr Cys Lys Lys Cys Cys Phe His Cys Gln Val Cys
1 5 10 15

<210> 8
<211> 50
<212> DNA
<213> Human immunodeficiency virus type 1

<400> 8
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<210> 9
<211> 63
<212> DNA
<213> Mus musculus

<400> 9
ccatgtgact ggcccctgac cccgcacccc tgggtatact ccgggggcca gcccaaagtg 60

ccc 63

<210> 10
<211> 33
<212> DNA
<213> Simian immunodeficiency virus

<400> 10
agcaacgagc ggagttcctg cgagttagag gtg 33

<210> 11
<211> 98
<212> PRT
<213> Artificial

<220>
<223> Modified immunostimulatory Tat

<400> 11

Met Glu Pro Ser Asn Glu Arg Ser Ser Cys Glu Leu Glu Val Pro Lys
1 5 10 15

Thr Ala Cys Thr Thr Cys Tyr Cys Lys Lys Cys Cys Phe His Cys Gln
20 25 30

Val Cys Phe Thr Lys Lys Ala Leu Gly Ile Ser Tyr Gly Arg Lys Lys
35 40 45

Arg Arg Gln Arg Arg Arg Ala Pro Glu Asp Ser Gln Thr His Gln Val
50 55 60

Ser Pro Pro Lys Gln Pro Ala Pro Gln Phe Arg Gly Asp Pro Thr Gly
65 70 75 80

Pro Lys Glu Ser Lys Lys Lys Val Glu Arg Glu Thr Glu Thr His Pro
85 90 95

Val Asp